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THE

INRICHMENT Of the Weald of

KENT

OR

A Direction to the Husbandman,

for the true Ordering, Manuring, and In-

riching of all the Grounds within the Wealds of Kent, and Suffex; and may generally serve for all the Grounds in England of that Nature:

1. Shewing the nature of Wealdish Ground, comparing it with the foyl of the Shires at large.

2. Declaring what the Marlis, and the several forts thereof?

and where it is usually found.

3. The profitable use of Marl, and other rich manuring, as well in each fort of Arable Land, as also for the increase of Corn and Pasture through the Kingdome.

Painfully gathered for the good of this Island, by a man of great Eminence and Worth, but revised, inlarged, and corrected with the confent, and by conference with the first Author.

By G. M.

LONDON.

Printed by W. Wilfon, for George Sambridge, at the Bible on Ludgate-hill, near

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By C.M.

Printed by W. William, for George Sawbridge, at the Bible on Ludy ne-hill, near



TOTHE

HONOUR ABLE Knight, Sir GEORGERIVERS

of Chafford, in the County of

SIR,



Ad Ino Scale (more than this bare and plain moulded Epistle,) by which to come to your worth; eares, yet in respect of the honest livery which it carries, being necessary and husbandly Collections, especially gathered for the Country and Soyl wherein you live \ I know it cannot chuse but find both favour and mercy in your acceptions; but when I call into my consideration the

great worthiness of your expence in this and all other the like affairs, which tend to the general benefit of the Common-wealth, and weigh the Excellency of your Wisdome, Judgment, Bounty, and Affection unto Hospitality (which giveth both strength and advancement to projects of this nature) I could not but take unto my self a double incouragement, and boldly suy unto this Work which I offer unto your goodness, Go and approach with all thy sweetness before him, he that so perfectly knows all which thou canst or wouldst discovers be that is abte both to correct and amend.

The Epistle Dedicatory.

mend any thing that is imperfect in thee, he, for vertues fake, will never for fake thee. Believe me (worthy Sir) should this Subjest wife is felf a Patron, I do not think it could wish beyond you : for you are a volume full of all that of which it intresteth: wit-nels your years, your supportation of the poor, and sour continual imployments, with any of which there is not (of your rank) a fecond living in your Comery, to walk hard in hand with you, Being then (dear Sir) the oldest and best friend to your Country, for (ake neither, nor this which comes to ferve it ; and though in this Glass Some lineaments may appear imperfect, yet by the help of your favour (though little be exact or most excellent) nothing (hall be gross or unworthy the survey of your worthier patience. And fo I rest.

Your's to be commanded

industries the Excellence of your triffing, Indentity, Some and Sportion good Tollie Wife which it will be a hitrough and all bear play and has been by streamentally be the right of the statement And to the sound the boy of from a mount in which for profit to of the first the world of the second of the second of the September 20 for this a receive in perfect.

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A Discourse of the Weald of Kentzand a comparison of Arable lands therein, with the other parts of the Shires. Together with some necessary counsels for the ordering and inriching of the marlable Lands in the Weald, as generally in any part of this Kingdome.



He Weald of Kent is the lower part of that thire, lying on the South fide thereof, and adjoyning to the Weald of Suffex, to the west.

the Weald of Suffex, to the west.

The Weald, both in Kent and Suffex, was formedicions, times all (or the most part) woody, Wild, and (in the first times) un-inhabited, and from thence

took the name of Weald, from the Saxon word, Feale, or Teal, or Weald, which fignifieth a Woody Country, or Forrest-like ground. The Brittans called it Andred, which fignifieth Greatness or Wonderfull, and in the Latin it was called Salens Andred, (that is to fay) the Chase or Forrest of Andred, by reason of the great

circuit, or large bounds thereof.

Touching the true boundary or limits of this Weald, there have been divers opinions, and most of them various, and much differing both in place and quantity, but that which is the nearest and best allied unto truth, both according to the opinions of Asserius Menevensis, Henry of Huntingdom, and others of most credible report, is, that it extendeth from the City of Winchelsey in Saffex an hundred and twenty miles in length towards the West; and thirty miles in breadth towards the North. Now, although this report be most agreeing unto verity, yet who knows not that curiosity may raise up many objections to withstand it: and therefore Mr. Lambert in his Perambulation of Kent, hath prescribed the best and more infallible way to find out the true and

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certain

certain bounds of this Weald, to be only by Jury, or the Verdict of twelve men impannelled for that purpose, either in case of controversie, or other particular search; and this hath been in these latter times brought forth most plentifully for it hath been found by divers late Verdicts, upon special and most necessary occasions, that the Weald of Kent is truly, Mr. Lamberts second step in his Perambulation of Kent, reaching from Winchessey in Sussey, and that hill there, unto the top of Rivers Hill in Kent; and neither farther towards London, nor shorter towards Tunbridge; which agreeth so persectly with the some limitations, that both

may be received as most true and sufficient.

This Weald was for many years held to be a Wild Defart, or most unfruitful Wilderness (as write the authors before mentioned) and indeed such is the nature and disposition of the soyl thereof to this very day: for it will grow to frith or wood, if it be not continually manured and laboured with the plough, and kept under by tillage; so as it may truly be said of it, Incust a reparantur vomere Sylve. It is throughout (except in very few places adjoyning to brooks or Rivers) of a very barren nature, and anapt either for pasturage or tillage, untill that it be holpen by some manner of comfort, as dung, marl, fresh earth, sodder, ashes, or such other refreshings, and that seemeth to have been the cause for which in old time it was used as a Wilderness, and kept, for the most part, with herds of Deer, and droves of hogs, as is specified in divershistorical relations.

And as there be yet remaining in Suffex divers great forrests, and sundry commons or wasts, having five or six miles in length, which, for the most part, are not sit to be manured for Corn, and yeeldeth but little profit in pasture; so have there been also in Kent (within our memory) a great number of woody and over-grown ground, converted of late; even after such a manner as in the said perambulation is restified; where it is said: That although the Weald of Kent belonged to sundry known owners long since, yet was it not then allotted into particular Tenancies, as the other parts of the shire were, but it was in process of time, by little and little, gained, as men were contented to inhabit there, and so rid it of the wood. And hereof it is also, that besides sundry whole parishes which

be named dens or new places, as Tenderden, Mallen, Beneden . and fundry other, there be moreover many smaller portions almost in every part of the Weald of Kem, which be likewise called Dens; as the Den of Cranebrook in Cranebrook, the Den of Hawkburft in Hawkburft, and such others; which (as it seemeth) were at the first undertaken to be manured by fundry particular persons, whose names were then taken for those very Dens, and continued many years together, as by ancient evidences it doth yet appear, howfoever the age of long time hath now almost worn and confumed them all out of knowledge. Neither doth the Weald of Kent contain fo many great mannors or courts (for the proportion of the largeness) as the rest of Shire doth, but was appertaining, for a great part thereof, to fundry of those mannors which do lye at large dispersed thorow the Shire, whereof each one had a great portion in the Weald, which both in the book of Dooms-day, and in fundry the court-Rolls, and Rentals, passerb by the name of Weald, and Silva Porcorum, or fwine gats, which were granted to divers of the farmers and owners of fundry tenancies which did belong unto those dens and other Lands within the Weald.

And albeit these Dens be for the most part good large portions of Lands, that be now broken into many feveral possesfions, fo as the same one Den sufficeth twenty Housholders at this day, yet it is very likely that each man at the first had his feveral Den wholly and unbroken, whereof he and his posterity beareth name, untill that the same was by the custom of Gavelkind, by fale, or by exchange, divided and diffributed amongst others into parts, as we do now feethem. But howfoever this Weald be of it felf unfruitfull (as I faid) and of a barren Nature, yet so it hath pleased the providence of the Almighey to remper the same, that by the benefit of Margle or Marl (as it is commonly called) it may be made not only equal in fertility with the other grounds of the shire, as well for corn as Grass, but also Superious to the more and greater part of the fame. The which manner of bettering the ground is not now The use of newly discovered , but was the antient practice of our forefa-antient thers many years agoe, as by the innumerable Marl-pits digged and spent so many years past, the trees of 200. or 300.

Marling was discontinued and is now revived.

years old, do now grow upon them, it may most evidently and pear, besides the which we have mention of Marle in books of gainage or husbandry, that were written in the dayes of K. Ed. ward the ad, or before, how be it the fame manner of dilage, by means of the civil Warrs, maintained many years as well in the time of the Barons Warrs, as of the warrs between the house of York and the family of Lancafter, was so given over, and gone out of use, untill these thirty or forty years, that it may be faid to have been then newly born and revived, rather than restored, because the very true are of inriching the ground by Marle, feemeth to lye hidden in part, as yet not to be discovered to the full: for in this short time we have feen many arable grounds, which, for fundry years after the marling of them, have plentifully born Wheat and other grain, to be now become unfruitfull, and fo will they continue, about they should be now marled again. And this commeth to pass by the ignorance of the right manner of ordering the Marle, which is as strong and chearfull as ever it was before, howsoever it worketh not this natural effect, through the unskilfulness of the Husbandman, that both wasteth the Marle, and lofeth withall his time, his labour, his coft, and the profit of his ground. I cannot deny but a man shall see some grounds of nature fit to take Marle, and of fituation fo near to Marl-pits long time opened, that they might be marled plentifully with little charge, and have been heretofore marled indeed, and yet the fame to ive now unplowed, and not only barren of themselves, but also unapt for Marle, and uncapable of amendment by tillage : but I must fay withall, that albeit the men in those former ages had the right ordering of Marl, yet were they not all good Hunbands alike, neither doth the field joy alike under the Farmer, and under the very Owner of the same, the one seeking the very uttermost gain that may be made during his short interest, and the other indeavouring to perpetuate his commodity, even to the end of his estate, which bath no end at all : fo that through the unskilfulness of the one, and greediness in others, the ground may fooner be crammed to death with Marle, than it shall be made the better or fatter by it. The reason whereof I will reserve untill that I have cause to ceach in particular after what man-

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ner and measure the ground is to be marled. In the mean while, I will open the nature and conditions of this Wealdish ground, comparing it with the Soyl of the shire at large, and afterward declare unto you what the Marl is, and what foresthereof there be usually found in the Weald of Kent, and laftly enter into the true and profitable use thereof, as well in each fort of arable Land, as also for the increase of Corn and Pasture through the

Kingdome.

The arable ground of this Weald bath commonly a fleet and shallow mould to be rurned up by the Plough , for sain many places the dead earth or mould is within three inches of the face of the ground, and in the best places, the good Mould exceedeth not fix inches in depth at the most and therefore it wanterh convenient substance conourish Corn any long time. but will faint and give over after a crop or two; for the which reason also, it cannor yield any sweet or deep grass, Befides this, the Weald hath many copped or hillish grounds, out of which there do many Quies or Springs of water iffue, that make it cold and barren; and from these hillocks, the best past of the good Mould is washed down into the VVater-courses and Dikes that be made to divide and drain the Land. Futthermore. the Weald is divided into many fmall inclosures, the biggeff fort (for the most part) of which, are between faceen Acres and twelve in quantity, and thereby hath it many Hedges and Trees, which in unfeafonable Weather do keep both the Sun and Wind from the Corn , fo as for want of that fuccour and comfore it groweth, and many times rotteth into the earth, fo that it carneth not, nor eareth, nor prospereth not kindly many rimes. And these small Closes are caused by this, that, men are not able to Marl any great part or quantity, of ground at once; and having marled a little, they are delirous to low it with Com: for the prefervation whereof, as also for draining it they are inforced to make fo many and fmall feveralls: from all which reasons it is plain, that there is little good arable Land there, and rarely any good Pasture, those only places accepted, which are amended by irrigations of floods, which there is called flowing and over-flowing. Contrariwife, the arable land of the Shire at large, hath a deep and far Mould of good carrb, that is to and mot able

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able to bear five or fix good Crops together, without intermission ; and after 3 or 4 years rest, will do the like again, and may fo interchangeably keep that course for ever : yes, there be many grounds that are fowed without ceasing, because the Mould is to deep, that when the upper part thereof beginnerh to faint and be weary, men can add some firength of Carrel and with the Plough go deeper, and fetch up a fresh Mould that will continue for a long featon. Furthermore, this arable ground is a hollow dry ground, for the most part, on a deep Clay, that by tillage, and the weather, will become dry and fooney, to as the Rain there washeth in the fat of the earth. the rather because it is not so hillish and sliding as the Weald. but more level, eaven, and Champian alfo, by which the Sun and Wind do dry the Corn, and do make it carn of eare well. and yield a puree flowre than that which is fobbed with wet, and hath long time lien before it be dryed again. But for as much as the great odds between these two forts of grounds ; may be made eaven by the help of Marl, if it be rightly ordered, as I faid. I will not shew you what it is, and how many forts thereof be found in this Weald of our Country. Marl is indeed, as it is in name, the fat (or marrow) of the earth : for fo did the Germans, and fo did out elders the Saxons tearm it, of the word Marize which we found Marrow, and thereof we call it marling, when we bestow that far earth upon our lean ground. Plim faith, that the Brittans (meaning us) did use to amend their Land with a certain invention which they called Marga, that is, the fac of the earth, and it is to be seen in Conradus Heresbachis; and the Germans doule it to the same end, and do call it by the fame name till this very day : it is therefore a fat, oyly and unctuous ground, lying in the belly of the earth, which is of a warm and moist temperature, and so most fertill: seeing that heat and moifure be the father and mother of generation and growth; howbeit this is not a pure and simple marrow (as that is which lyeth in our bones) but a juice, or fac liquor mingled with the earth ; as is the fat which I verh mixed , and difperfed in our flesh, so as the one may be drawn away, and the other remain, as it shall anon appear unto you. Four forts of Marl be found in this Weald, known afun-

Four forts of

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der by the difference of colours, and thereby also differing in degrees of goodness one from the other: for there is a grev, a blew, a yellow, and red Marl, all which be profitarable, if they be earthy and fat, or flippery as fope: and most times little worth , if they be mixed with fand, gravel , or stone. So the blew is reputed the best, the yellow the next. the gray the next, and the red less durable than the other three, and yet it is thought the red to be the better, if it be found upon the blew, or others. These Maris do Ive in veins or flowers, amongst those hillocks or copped grounds most commonly, whereof I have spoken, and do oftentimes shew themselves at the foor of the hill, or about the mid way, between the foot and the top thereof ; forme of them have over them a cover of ground, which we call Cope, not exceeding feven or eight foor in depth, fome lye deeper, and other fome do arife, as namely, where the ground lieth not high: and that Marl commonly is very good; and there is in diverfe level grounds good Mart.

And as Marl is for the most part of these four colours , Four forts of fo is arable ground for the most part of these four fort fol- Grounds. lowing; that is to fay, either a cold, fliff and wet clay, I. which is either the Cope of the Marf, or lieth near unto it. and is therefore commonly called , The Mart Cope ground: or a Hazel Mould, which I count to be one of the best weal- 2. dish Moulds, being a compound Mould, and very good for Marl, and will quit the cost very well. Then there are two 3.4. fores of fandy Mould, the one being a reasonable good kind. bur not equal to the hazel Mould , for you shall have in divers places of the VVeald, this hizel mould to bear two or three good crops of VVheat, being Summer fallowed, rogether, which you shall hardly have of any fandy ground withour mending, but as I faid of the better fort of thefe two kinds of fandy moulds, you have commonly very rich VVheat, being well Marled, which is not fo barren as the other, but this last kind of fandy Mould is a very barren kind of ground, and bath a very fleet Mould, and you shall have very heath grow upon it in divers places, and yet being ordered, as followerh, with Marl, will bear both good Corn

and Pasture. And now that we may the better understand how to Marl and manure every of these forts by it self, you must know that the hizel-ground, being dry, and not subject to-Winterforings, or tears of water, (for which, fome call fuch, A whining

or weeping ground) is to be handled thus.

of the Hazel-Mould,

First. Plough it as deep as you can, with the strength of The ordering eight beafts at the leaft; and be not afraid to Plough up some parcof the dead earth that lyeth under the upper good Mould : for the Sun, the Rain, the Wind, and the Frost, will in time mellow and amend it and befides that the Mould will be the deeper for a long time after, and thereby keep it felf the longer from being stiffned with the Marl. Then you may bellow 500 Cart-loads (as we call them) of Marl upon each Acre thereof, every load containing 10. or 12. bulhels of eight gallons, and each Acre containing 160 Rods of 16 foot and a half to a Rod. Then also you may chuse whether at the first breaking up you will sow it with Oats , to kill the grass, or else first Marl it, , and sow it with Wheat, or otherwise Summer-fallow it in the May after the Oars. and then Marl it, and fow it with Wheat. Upon that fallow or gracen, (as we call it) you shall do well to fow it with Peafe, and at Michaelmas following, to fow that Peafe-Rubble or gratten with Wheat again, which affo will be the better, if the Summer wherein it carried Peale, were moilt; because the Pease being rich and thick, do destroy the Grass, that, together with the washing of the fallows by rain, doth greatly confume the heart and vertue; or, as we call it, the flace of the ground. But if that Summer were dry, then is fallow best; because the Sun with his hear doth much good to the ground, and inableth it the better to bear out the weather in the Wheat feafon enfuing. If you like to fow it, as I faid, with Peafe, fow them as early and timely as you may, for they will be so much the sooner harvested, and then also you may Plough or fir your grarren the sooner, whereby it will be the better hardned to bear out the Weather in the rime of fowing of your Whear: but I doubt, Peafe doth fomewhat stiffen ir, Two bushels of Wheat do suffice for the fowing of an Acre bereof, except it be for the first crop, after

the new breaking up of the ground; during which time, there is found a worm called an Emble, which in French fignifieth Corn in the ground, being of colour yellow, and of an inch in length, and will ear some part of the Corn; but if you few it thick, it will be both small eared, and thick, and slender of straw, which the Rain and Wind will bear and hurl down, and then it will scarcely rise again; or if it do. ver through the nearness of the shadow of the Trees and Hedges, that in fo small closes be many, it will rather rot for want of drying, than come to maturity, that is, to perfect, hard, and full grown Corn. After your first Marling, you must carefully fore-see, that you Plough nor the ground either with deep or broad Furrows, but fleer and narrow, lest you cast your Marl into the dead mould, for Marl differeth much from Dung in this behalf; Dung spendeth it self upward, and howfoever deep it lye, the vertue thereof will ascend: but Marl, (as saith Sir Walter Henly, in his Husbandry) sendeth his vertue downward, and must therefore be kept aloft, and may not be buried in any wife. Purthermore, if your ground be hillish or copped; it shall be fit that you make your Ridges 7 or 8 foot broad at the leaft; for in such falling Lands, the more broad Furrows you make, as you must make many, where you make Ridges, the more of your Marl shall be washed, and carried into the bottoms. It is good also to draw a cross or quarter-Furrow, and opening the ends of your Land-Furrows stopped, into it, toleave the other ends of your Furrows, that the watershoot run not all the length of the field. Again, this ground will alwayes be fown under furrow, and that alfo before Michaelmas; if the feafon will fo permir, for this ground (if it be well husbanded) will be mellow and hollow, or loofe, whereby through Rain and Frost, it would fink down from the root of the Wheat, if it should be fown above Furrow, the which being uncovered, must needs be bitten and killed with the cold. It is also very fit that you harrovy not this fort of ground too small, but that you leave the clods as big as a bovvl, the vyhich being mouldred with snovy and the frost, will both cover and keep yvarm what is underneath

neath. Moreover, it shall be good, that upon some fair and dry day, in the beginning of March, you put your flock of Sheep into your Wheat, that with their trampling upon it, the Corn may be well, and fast closed with the earth, yea, and presently after (if it will bear foot) you may roll it as you do Barley whereby both the Clods shall be broken, and the Gratten or stubble shall be more eaven and ready for the Mower. Generally you must understand, that after you have bestowed your Marl in the field, you ought to let it lye unforead abroad, untill you be ready to plough, and then immediately after the spreading of it, turn it into the ground with the Plough; for otherwise, if it should lye long spread in the field, the Sun will spend no small part of the farnels thereof, although I know many defire it, because it will be the smaller, being burned with the Sun; which I like not. And therefore also no good Husband will carry and spend his dung in the time of Summer, except he do presently withall plough it into the ground; for although the Mould of the arable Land it felf will take good, if it be turned to the Sun, which will both dry and fasten it , yet the matter fareth far otherwise with the Marl, from which if the Sun shall draw and fuck the far moisture that maketh the Land fertile, then becommeth it (as Columella speaketh of the worst fort of ground) Solum ficcum pariter & denfume macrum quod five exerceatur. five cell'at, colono refugiendum eft: It becometh (faith he) a dry, thick, and lean Clod, which, whether it be tilled or laid to reft. must be forfaken of the Husbandman as unprofitable. And now your Hazel mould being thus marled, plowed, fown, and manured, you may not charge with Wheat above twice, and then it must rest five or fix years together; all which time it will bear a very good and fweet Pasture, well fet with a white Clover, of three leaved grafs, most barning and profitable, both for Sheep and Bullocks.

After those years ended, triwill grow to some Moss, or will peradventure cast up Broom; and then it is time to break it up, and sow and handle it as before, for two other Wheat-seasons or crops, leaving it a Wheaten-gratten or stubble, rather than with an Oat gratten or stubble, which

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burneth the Land being marled. Being thus interchangeably fowed and refted, your Hazel mould will continue good arable and pasture, by the space of thirty years together, whereas if it should be continually sowed, fix, or seven, or more years together without rest, it will become unterly unfruitful, both for Corn and Cartel alfo. Neither will it any thing avail to marl it over again, when it is so decayed, because the former markhaving the juice exhaufted by continual! Tillage, whereof the Corn sucketh one part, and the Sun, VVind, and VVeather dry and wastern the rest, is but a dead Clod (as I said) that is not capable of new Marl to amend it, nor casterh any profitable grass at all. For proof hereof, I my felf have seen, that the common earth of High-wayes; by treading of Cattel, washing of Rain, and the drying of the Sun and V Veather, lay separated from the natural juice, which it had in the pite and spreading it upon the ground, I saw the Land was not only not amended, but much the worse by it. And now for an end of handling this fort of Hazel-ground; if it shall appear unto you that five hundred loads of Marl upon the Acre, have clanged, stiffned, and too fast bound your Land (as indeed the nature of Marl is to bind and to stiffen) then take you some of these wayes to help it : either rest it four or five years, or fodder upon it, being you bring it up, with fo many Carrel as you may; or take the uppermost part of your Dirches, or Fore-Lands, or wast places of your fields, which you may mingle with Dung, and which, before you fow your Wheat, you may lay upon and the your fallow, and fir it in with your plough, and by this you shall both loofen your Marl, and refresh your ground: fo that within forty years, the mould of your ground will clean eat up and swallow the Marl that you lay upon it a and then become hungry, and is capable of Mari again, as it was before at the first.

And by this also you may see the very cause for which it is good, not to sow your marled land continually, but to patture it by turns, and so give it rest; namely, because the continual plowing doth exhaust and spend the fat of the Marl, leaving the drossie, dry, and fruitless parts thereof, to lye and cover the face of your ground: whereas pasturage, through the dunging,

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creading, and foddering of Cartel, doth increase a new Mould. which mingling it felf with the dead Mould, doth in the end give some life and heart unto it. And therefore these Farmers and Owners that have been at the cost to Marl their ground, and will not forbear to till it, but haftening to raife their charge. do thereby urterly frike it with barrennels, are like to Alop's man, who having a Hen that laid him every day a golden Egg, and being greedy to have all the gold at once, did therefore kill the Hen, thinking to have found her belly full of gold, and fo was both defrauded of that he looked for, and loft also what he had before. Hitherto of the nature, ordering and marking of this hazel ground. Generally now for the continuall fallowing and stirring thereof, you must understand, it may neither be fallowed wer, left it answer more Grass than Corn; nor yet so dry, that the dead bottom swell up, as in great drowth ir will, and swallow the good Mould that lyeth above : and therefore bind not your felf to any precife time of any moneth; but the opportunity either in May or Tame, as you shall find the weather to have prepared it for your defire. In the like temper you ought to flir it after a shower, after Saint James his day; or in the end of Tuly, for fo will it be 'dry and hard before the time of fowing: whereas if it be firred latter; every small Rain will diffemper it into Dirt and Mire, by reason of the rendemess thereof, and then can you not firly bestow your feed upon

of the Marl

The ordering The Marl Cope ground followeth, which is most commonly, (as I faid) a stiff, wer, cold Clay, and not so fit as Cope-ground, the former to be marled for Corn; except in some few fleet places thereof, but yet it may ferve for Pasture or for Oats; fuch of them as be marled, must be fallowed fleer or shallow, left the marl become drowned in the wer: then being marled, they may in dry Summers, (and not over-moist Countries) bear Wheat in some mediocrity. Three hundred loads at the most of Marl are sufficient for an acre of this kind, and two bushels and a half of Wheat will sow the same, which must be cast above furrow, fourteen, or twenty dayes before Michaelmas. It requireth round, high, and narrow Ridges, and that the

the water furrows be fricken somewhat deep, the better to convey moisture from the Corn, and that it be left cloddy as much as may be; and yet to fay the truth, fuch as will convert this fort of ground to Tillage, must provide a greater quantity of rich ground or Greet (as we tearm it) and Dung, than of Marl it felf, to amend this Land withall. But if there be any ground that is light and whining, or weeping, because of Springs that are therein, and therewith doth cast up Rushes, let that be marled upon the green Land with four hundred or five hundred loads upon the acre, about the latter end of Summer; for fo will the Marl fink into it, and cast up a sweet grass for eight or ten years together, untill that the Marl be funk fo low, that another fward or crust of earth be grown over it; and then it is time to plow it, but yet very fleet and narrow, for fo will it bear good Oats : but if it be fo wet that you cannot adventure to fow your Wheat upon it, because the Rushes be not killed with this first plowing, then may you sow it again with Oats, drawing good water-furrows to drain it, because it will be the wetter for Plowing, and thereby the Marl also will the fooner tose his force, thus doing, let it lye to pasture again.

There be some other grounds of Marl Cope, which car- Dyers-weeds, ry a foure grass, and the Dyers-weed, (commonly called Greening weed) and having a great tore thereof, the which also may be amended by three hundred or four hundred load of Marl upon the acre of the green Land, for the Marl will both for the tore or vesture thereof, and also inrich the Mould very much; fo as it will answer good pasture twelve years after: and when you shall perceive that the Marl is well funk, then may it be Ploughed fleet and narrow, fowed with Oirs and fallowed; so may it both bear good Wheat, if it find a good season, and be the richer a long time after partly by the benefit of the Marl. partly by the rotting of the tore and fward, and partly by the dung and water of the Cattel that pasture upon it : for the sweeter the Pasture is , the more beafts it feedeth, and the more beafts it beareth, the more it felf is amended by

Touching the fallovving of this ground, great heed is required; for as it fyvelleth more than the Hazel-ground, if it be raken hard and dry, fo it is more graffic than that, or the Sandy Soyl if you fallow it wet: The feafon therefore followeth commonly in April, or in the beginning of May, for to fallow it, and to fiir it about Midsummer, or so soon after as the rain shall have prepared it meet for your unshod Oxen to labour upon it. Many men feating to hit the right season for this ground in the Spring of the year, do make it ready by a winter fallow before Christmas, and by stirring it before Midsummer, if they may; which manner is not to be misliked.

The ordering of the fandy moulds.

Laftly, cometh the two forts of Sandy-ground, and gravelly mould, the one being to be ordered much after the hazel mould, faving he would have somewhat more Marl, and also would be favoured more in the often tillage, than it : for the hazel-mould will bear or endure more than the Sand. But this last fort of fandy-ground, being a very flaring fand (as we use to call it) for much of it will bear Heath, being of it felf very barren and very fleer or shallow mould, and over-hor and dry, and by reason of that extremity, is unsertile except it be marled very plentifully. And therefore when you break up this ground, Plough it as deep as you may, not feating to cast down the best Mould thereof, because the Marl will pierce thorow, and fink down into it. An acre of this ground requireth five hundred or fix hundred loads of your Marl at the leaft. Sow alwayes under furrow about Michaelmas with two bushels and a half upon the Acre, which it will better carry than the Hazel ground: for although the straw be small, yet will it be harder, and stand better than that of the other. The worm whereof I spake, will be busie with that, that groweth on this fort of ground, untill that the heat thereof be somewhat alfwaged by the Marl. If your ground be hilly, make your Water furrows in fuch fort, as I have faid before, for the faving both of your Marl and Mould, harrow is very little, leave it as cloddy as you may. After that you have taken a Crop from it, fallow that Wheat Gratten or Stubble in May; after that flir it also, and then about Michaelmas sow it with Wheat again: for

it is not yet tich enough to bear you good Peafe. This done, let it self four or five years, and if it fend up any plenty of broom. cut or pull them when they be of fome mean bigness, but plough nor the ground untill it have taken such reft; and after it, you may well break it up of new, and fow it with Oats: which Oats gracten or Stubble, you must summer-fallow, when it is at the Harvest: and then if you defire to have it in good heart, you must Marl it with three hundred or four hundred loads upon the Acre again. After this Crop thus taken, reft it five orafix years, and then take one Crop more of Oats from it; and after a Summer-fallow, fow it with Whear, and fuffer it to lye a Wheat Gratten or Stubble, till it shall have refled as before is appointed for the hazel ground; and so it will be the better thirty or forty years after the marling. We have in this Weald a fandy and gravefly ground that is wet and weeping; the which is scarcely worth the marling, except the nearness of the Marl, and thereby the small cost and charge thereof, may intice a manto bestow the cost upon it with Mart, and then the best way is to Mart upon the green Land, or upon a fallow, with 500 load or more upon the Acre, or rather to take the profits thereof by Pasture then by Tillage: for it will hardly bear good Corn, which is foon killed with wet vapour that is continually fent up from the wet springs that Iye under it. This fort of wet ground is to be fallowed, when it is both hard and dry, because it swelleth not as doth the hazel Mould, and may therefore be taken in Fune, if former fair vveather bring it not to a dry feason; and it is to be stirred also after a shower, in the like plight as the hazel mould before. Your marlable grounds being ordered in this vvife, feverally fet down for each kind of them, vvill continually stand fruitfull either for Corn or Pasture, and albeit the high prices which Corn hath of late years carried, may allure some men to fovy Corn incessantly, and thereby to spend their Marl, and to choak their arable in the end; yet I doubt not but the vviler fort can fee that it is much . better to maintain their grounds hearty and in good plight for ever, than to raise a short gain, that will bring a long and perpetual loss upon them : the rather also, because that Butter,

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Cheese, and the flesh of bees and mutton be advanced in price equally, is not beyond Whear, Rye, Barley, and the other grains. Howbeit, a good Husband will make his profit of them both; for if he have one hundred, or one hundred and twenty acres of this Wealdish arable, he will so Marl and manure them, that dividing his land into five or fix equal parts, he may continually plough twenty, or five and twenty acres for Corn, and yet lay to pasture the rest by turns, so that by the help of his Marl his land shall be continually rich and profitable, both in the one and other of them. And thus I have spoken of the Weald, describing the nature and property thereof; so may every man of discretion and judgment, which shall meet with earth of the same quality and condition (in what part of this Kingdome soever) make application of these Rules before rehearsed, and no doubt but the profit will make both the labour and cost profitable and pleasant.

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The several waies, according to the opinion of writers, and the certain wayes, according to the experience of Husbandmen, for the destruction of Moals, or Wants, which dig and root up the earth, and how to reduce and bring the ground to the first goodness having been been spoyled by them.

IT is needless either to describe the nature and quality of this Vermine, or the injury and hurt which they do to the Husbandmen, Gardiner, and Planter, since no Country is exempt from their annoiance: but touching the remedies, they are of greater secresse, and therefore I thought good in this place to infer them.

The antient Writers are of divers opinions, touching the manner of destroying this creature, and therefore have lest unto us sundry medicines how to work the same: amongst the which one writeth, as an approved experiment, that if you take Walnut shels, and fill them with brimstone, chass, and Petrosin, and then setting them on fire, put them into holes or trenches, through which the Moal passent, the very smell or slink thereof will poyson them; so that if you dig, you shall find them dead in their holes.

Another affirmeth, that if you take brimftone, and rank flinking litter of horfes, and burn it in the holes or haunts of the Moals, it also will impoilon them, so as you shall find they will come out of their Caves, and lye dead upon the green grass.

A third affirmes; That if you take green Leeks, Garlick, or Onions, and chopping them grossly, thrust it into the holes, the very fume or favour thereof will so affonish and amaze the Moals, that they will presently for sake the earth and falling into a trance, you may take them up with your hands. Now there is not any of these medicines which can

be dis-allowed; for there is no doubt but that they will work the effects spoken of, if the Moal can be brought to take a full scent thereof; but it is a Vermine curious of scent, and passing quick of bearing, and being in a spacious ground, will prevent these baits; and therefore they are rather to be applied for Gardens or sittle grounds, where there is but a Moal or two, than in large fields, where there be many hundreds.

To conclude for this matter of medicines, or for the helping of Gardens, Hop-yards, or any smal spot of ground, there is not any thing held more available, than to sow in that place the herb called Palma Christi; for it is found by certain experience, that wheresoever that herb groweth naturally of it felf, or otherwise is either purposely sown or planted, there in no wife will any Mosl abide.

Thus much I thought good to shew you for the use of medicine, and for clearing of small grounds: Now for the anoisness which happen to great, large, and spacious fields, through the multirude of Moals, there is only three absolute wayes for the cu-

ring of the same.

The first is, in the months of March and April: to view where they cast, and go about to make an extraordinary great hill, in which they build them nests, which is known by the newness of the Mould; then look for the new trench which leaders to the same; for as she goeth she returneth: then with your Moal-spade open the trench in divers places, and then very still and silently, and observing to take the wind, to prevent both hearing and smelling, watch the Moal as she goeth of returneth, which is, Motning, Noon, and Evening, and as soon as you see her cast, strike her with your Moal-spear, made of many sharp pikes, and so cast her up, and kill her. Thus have I seen by one man an hundred destroyed in one day.

The next infallible way for the destruction of Mouls is, if you can by any possible meanes bring in water to over-flow and wash your ground; for as soon as the earth is were over, the Mouls will come forth of themselves; and you may ga-

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ther them up with your hands at pleasure.

The last (indeed as much approved as any) is to take a live Moal in the month of March, which is their bucking or ingendering time, and put it into a deep brass-Bason, or other deep smooth Vessel, out of which the Moal cannot creep, and then at evening bury it in the earth up to the brim: and so leave it, and the imprisoned Moal will presently begin to shrike; complain, or call, so that all the Moals in the ground will come to it, and tumbling into the Vessel, they are prisoners also, and the more prisoners, the greater will be the noise; and the more noise, the more Moals will come to the rescue; so that I have seen 50, or 60, taken in one night, and in one vessel or brass Kertle.

Now having thus learned how to destroy the moals, it is meet you also know how to prevent the coming in of soreign Moals; because though you keep your ground never so clean, yet if your next neighbour be an ill husband, his field may soon impossion yours again: therefore to prevent the coming in of any foreign Moal, make but little surrows or Trenches about your ground, and scatter in them small round balls made of Hemp-seed, or Hemp-seed and Palma Christic beaten together, and you shall not need to fear the coming in of any Neighbouring Moals, how many soever there be about

YOU.

Lastly, for the reducing or bringing the ground to the first perfection again (for howfoever fome Husbandmen say, Moe Moal-hills, moe ground, yet 'tis certain, that moe Moal-hills, less good ground) for never was yet sweetgrass seen on a Moal-hill; therefore to bring it to perfection, which I mean to be meddow ground, or ground to be mown, which Moal-hills cannot be, you shall first with a sharp paring shovel, pare off the swarth about three singers deep, for fear of hurring the roots of the grass: and then the swarth taken off, dig away the rest of the Mould, and scatter it as small as you can round about the hill, then take the green swarth, and cutting it artificially, lay it close and fast, and level, where you took away the Mould; as if there had never been Hill there: and thus do to all your hills, though they be never

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fo innumerable; and afterall your ground is levelled, as foon as the first shoure falleth, run all your ground over with a pair of back Harrows, or an Harrow made of a Thorn-bush, and it will break the mould as small as ashes, which will so comfort and refresh the root of the grass, that it will grow in infinite abundances and sowreness which was caused by reason of the Hills, will come again to a perfect sweetness, and the meadow will be more fruitfull than before by many degrees. And thus much for the destruction of Moals, and the reducing of the earth to his first goodness.

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